Vitilevu

XIV

BERNICE P. BISHOP MUSEUM

HONOLULU, HAWAII

FIELD NOTE BOOK

(yes - see list that Illing has)

BERNICE P. BISHOP MUSEUM
HONOLULU, HAWAII

FIELD NOTE BOOK

Subject Herpetology

Locality Vatthova Fiji

Member of Staff

Date Feb - Sept. 1934

Sat. Feb. 10, 1934

F218 Collected additional fossils from Cg. at Ridam. Quarry on Walvis Bay. (Sta. 160) – additional material Feb. 11.

Mon. Feb. 11.

With W. T. C. Edwards to 6¼ mile
F219 quarry. Coll. few specimens.
On to new quarry opened in
F220 basalt at 7½ miles. Rock dark gray, rude columnar joints, modified locally by faulting.
F221 [illegible] in abandoned [illegible] much weathered porphyritic igneous rock.
F222 Saw Col. Cottle carbon in clay + iron given samples from Tinne- gold prospect. He claims £1500 was shipped in 1932 (black [illegible])

then from [illegible] of a mining
report by Lofton Hills D. [illegible]
[illegible] Nov 5, 1932
[illegible] [illegible] of [illegible] for [illegible]
by W. Borthwick – [illegible] of altered
gold found in altered andesite
~5 miles from Tarma, [illegible]
on [illegible] Creek, a tributary to
Waiau R. & in Korokoro Range
– [illegible] near [illegible] 500 [illegible].
Gold-bearing altered andesite
surrounded on all sides by dolerite
& basalt. At [illegible] contact the
andesite can be seen plunging steeply
downwards under the dolerite. Andesite-
dolerite to north is somewhere in vicinity
of Hot Springs.
On NE slope of Korowa Hill fossils
mudstones are interlaminated with andesitic
tuff – action of andesite of Mortons
range ∴ Mid-Ter andesite consist

of two series separated by mudstones.
(And. in Castillo area is lower, that
in NE part of Mortons is upper)
– Later phase of volcanism. This volcanism
responsible for invasion of andesite
by ore-bearing solutions which altered
& bleached them by propylitic action
& formed ore bodies in altered zone
in andesite. Subsequent denudation
caused silicified andesite to stand
out as hill – Exposure of andesite very
limited scarcely extending beyond hill
Country rock near ore bodies is
white grey or greenish blue. Near contact
with ore bodies is speckled or stained
with yellow or brown. Country rock
darker away from ore bodies. [illegible]
rock close to ore bodies is [illegible]
[illegible]
altered by propylitisation
[illegible]

Vitina. pieces & disseminations of
free gold occur in lode material
(where gold prevalent in pieces & vugs
& in clusters of crystal or dentated
crust on manganese stained gossanous
material. Pieces of high quality [illegible]
one hand [illegible] south of [illegible] showed
on assay of 967 fine. [illegible] spec.
showing disseminated free gold assayed
5.8 oz per ton, silver nil.

F223 [illegible] from [illegible] of Tamavua
Quarry – donated by W. C. Edwards

Naduruloulou – Korovou Road

F224 1½ miles – Sandstone
F224A Wainibuka [illegible] – [illegible] (Vitilevu) – [illegible] of
very well rounded pebbles – section for foram.

Took the road to Korovou thence
westward to [illegible] the Wainibuka
valley near [illegible]. The

road cuts are mainly through [illegible]
sandstone with [illegible] sections in
[illegible] contain
thick beds of [illegible] well worn [illegible]
[illegible] & these exposed [illegible] in the
[illegible] from road [illegible] deposits.

The main road to Vitilevu Bay
continues from Korovou to Waidalice
& [illegible] follows the main Wainibuka
& then [illegible] tributary to cross
over divide to head of Vitilevu Bay.

The upper part of the Wainibuka
[illegible] through [illegible] valley
& very little [illegible] (Vitilevu) [illegible]
[illegible] beyond [illegible]
[illegible]
[illegible]
[illegible] I suggest there
is some faulting in the valley to
account for varying heights [illegible]
[illegible]
which [illegible] detail mapping.

[illegible] Kirwan [illegible] of Berg & Frey
U.S. [illegible]

– [illegible] Pass

[illegible] part of [illegible] andesite – [illegible] &
[illegible] tuffs & mudstones dipping E at
[illegible] [illegible] [illegible] [illegible]
[illegible] tuffs, mudstones & shale.
The base of this series dips [illegible] E, are
[illegible] [illegible] conf. with
tuffs – mudstones [illegible] [illegible]
[illegible] [illegible]. [illegible] the upper [illegible] the
upper [illegible] of the [illegible] andesites
are [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] P.L. 207
[illegible] E [illegible] P.L. 207 & 208. [illegible]
they are [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] E [illegible] –
[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible].

(a) Lower andesites – all [illegible] completely [illegible]
[illegible] [illegible] [illegible] – showing [illegible] [illegible] [illegible]
[illegible] – [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] with [illegible] phenocrysts of
feldspar & pyroxene – both monoclinic & rhombic [illegible]
proportion of these [illegible] [illegible] feldspar
predominates. [illegible] [illegible] [illegible]
[illegible] – the phenocrysts are [illegible] [illegible]
as can be seen the groundmass is too.
Pyrite in [illegible] [illegible] [illegible] throughout [illegible]
– [illegible] [illegible] [illegible] dipping E at 15° & in
[illegible] [illegible] tuffs. [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] – [illegible] less altered than [illegible]
[illegible] – very [illegible] [illegible].

(b) Tuffs, mudstones & shale.
[illegible] [illegible] On S. of [illegible] Peak, [illegible]
are well bedded – vary from "grit" [illegible] to very
fine [illegible] sh. or claystone.
[illegible] [illegible] [illegible] [illegible] – [illegible] [illegible]
– higher than average because of proximity to

fault – [illegible] the Ottoman – Emperor lode.
[illegible] [illegible] of them, [illegible], interbedded
andesite.
No [illegible] in [illegible] [illegible] [illegible] [illegible]
[illegible] in mudstone.
[illegible] [illegible] [illegible] of P.L. 207 [illegible]
[illegible] with thick bands of interbedded tuffy
sh. & mudstone. [illegible] [illegible] – dips E at
10 – 25°. [illegible] [illegible] [illegible] [illegible]
strongly silicified. [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] to those [illegible] [illegible]
andesite flow.

(c) Later volcanics
[illegible] [illegible] [illegible] [illegible] large [illegible] of
[illegible] [illegible] [illegible] [illegible] [illegible]?]
[illegible] [illegible] [illegible] on older andesite [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
Later [illegible] [illegible] [illegible] [illegible] [illegible]
lying at various levels on strongly eroded surface
of and. & assoc. sed.
[illegible] [illegible] [illegible] [illegible].

Geological History

([illegible] [illegible] [illegible] [illegible])
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] The [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

Subsequently [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
([illegible] p. [illegible])

F233 — [illegible] ^Chalky^ — [illegible] [illegible] Pumice bed —
[illegible] [illegible] [illegible] [illegible]
N 615

F234 — [illegible] — [illegible] [illegible] [illegible] [illegible]
[illegible]

F235 Chert — from near [illegible] on
[illegible] Hill

F236 Obsidian — said to be in situ in
left bank of Manda river, Kavuna
(see Lands Dept. map) — spec.
from Cantillo

F237 Add coll. [illegible] Quarry — ~~Sept~~ Aug [illegible]

(cont.) [illegible] [illegible] was complicated, [illegible] the [illegible]
period the [illegible] [illegible] to [illegible] down but would
be [illegible] [illegible] [illegible] [illegible]. [illegible] the
water table rose, [illegible] conditions would be
[illegible] established in the oxidized zone and might
[illegible] the effects of oxidation.
[illegible] [illegible] results [illegible] [illegible] [illegible] [illegible]
[illegible] the effects of [illegible] [illegible] single stage [illegible]
[illegible] with anomalously deep oxidation
along the very [illegible] [illegible] channels.

[illegible] [illegible] [illegible] have similar [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] 7 [illegible] [illegible]
[illegible] [illegible].

(1) Ramsbottom — [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
the [illegible] [illegible] [illegible])

(2) Kalfurna — [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
([illegible] [illegible] [illegible] [illegible] [illegible] [illegible])
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible]

[illegible] [illegible] Gotland [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] the [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

1) [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] — [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] length [illegible] [illegible] [illegible],
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

-strike and outcrop for width of 4,000'
-allowing a dip of 10° = 700' thickness possible bodies
-are thick flows - total probably greatly in excess
of 700'

Fiji Gold production to date (Sept. 3, 1934)

Vanualevu
2,837 oz. @ £7-14-0 (Fiji currency) =
£21,344-18-0
@ £6-19-3 (Sterling) =
£19-12-3 (plus price varies up toward £7-0-0)

Vitilevu
321 oz. @ £7-14-0 (Fiji currency) =
£2,471-14-0
@ £6-19-3 (Sterling) =
£2,234-19-3 + (price varies up toward £7-0-0)

Wed. Sept. 12th
F238 Nasongo - cg blocks on landslide near former station - see map for exact location.

Thurs. Sept. 13th
F239 South of Nasongo at old station 362 - additional collections - see map for exact location. On return trip paced from sta. to point where trail crosses Kutuma Creek - 1833 paces and on to crossing of Waimbeia Creek - 1943 p. - check this with map distance & cf. with Lian "rough ground" pacing (this Nasongo piece includes some switchbacks not shown on map)

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Ladd

XIV

Vitileva

262

Ladd

XIV

Vitileva